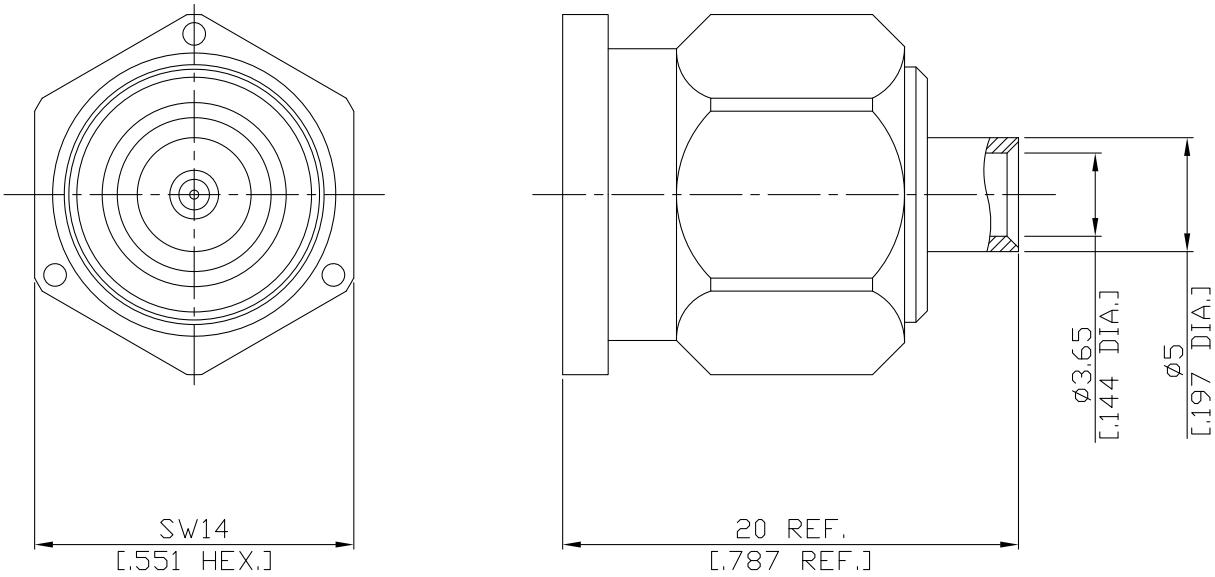
ROSNOL®
RF/Microwave Interconnect

Technical Data Sheet

TNC Plug (Male) Connector Solder Attachment for RSR141, RSF141, EF402, .141 Cables, RG402 DC-10GHz VSWR1.20

TNC1E50-0141B / 1XX



All dimensions are in mm [inch]
Tolerances according to DIN ISO 2768-mH

Interface

According to	IEC 60169-17	MIL-STD-348B/313

Electrical Data

Impedance	50 Ω
Frequency	DC to 10 GHz
VSWR (Return Loss)	≤ 1.20 (≥ 20.83 dB)
Insertion Loss	≤ 0.05 dB
Insulation Resistance	≥ 5 GΩ
Center Contact Resistance	≤ 1.5 mΩ
Outer Contact Resistance	≤ 1.0 mΩ
Test Voltage	1500 V rms
Working Voltage	500 V rms
Power handling (at 20 °C, sea level)	≤ 80 W @ 2 GHz

- Limitations are possible due to the used cable type -

Material And Plating

Piece Parts	Material	Plating
Centre Contact	Brass	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch)
Body	Stainless Steel	Passivated
Insulator	PTFE	
Gasket	Gasket	
Coupling Nut	Stainless Steel	Passivated
Barrel	Brass	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch)

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Mechanical Data

Coupling Mechanisms	Screw-Lock
Mating Cycles	≥ 500
Center Contact Captivation: axial	≥ 15 N
Coupling Test Torque	Max. 1.7 Nm
Recommended Torque	1.36 Nm
Centre Contact	Soldered
Cable Entry	Soldered

Environmental Data

Temperature Range	-65°C to +165°C
Thermal Shock	MIL-STD-202, Method 107, Condition B
Corrosion	MIL-STD-202, Method 101, Condition B
Vibration	MIL-STD-202, Method 204, Condition B
Shock	MIL-STD-202, Method 213, Condition G
Moisture Resistance	MIL-STD-202, Method 106
RoHS	compliant

Suitable Cables

RSR141, RSF141, EF402, .141 Cables, RG402

Packing

Single or 100

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